

Figure 1

	Annealing			Extension		
	Number of adaptors	Length of Primer	Concentration of primer	Concentration of nucleotide analogs	Reaction time	Exonuclease Activity
Increase size	single	long	low	low	long	3' to 5' exonuclease present
Decrease size	double	short	high	high	short	3' to 5' exonuclease absent

Figure 2

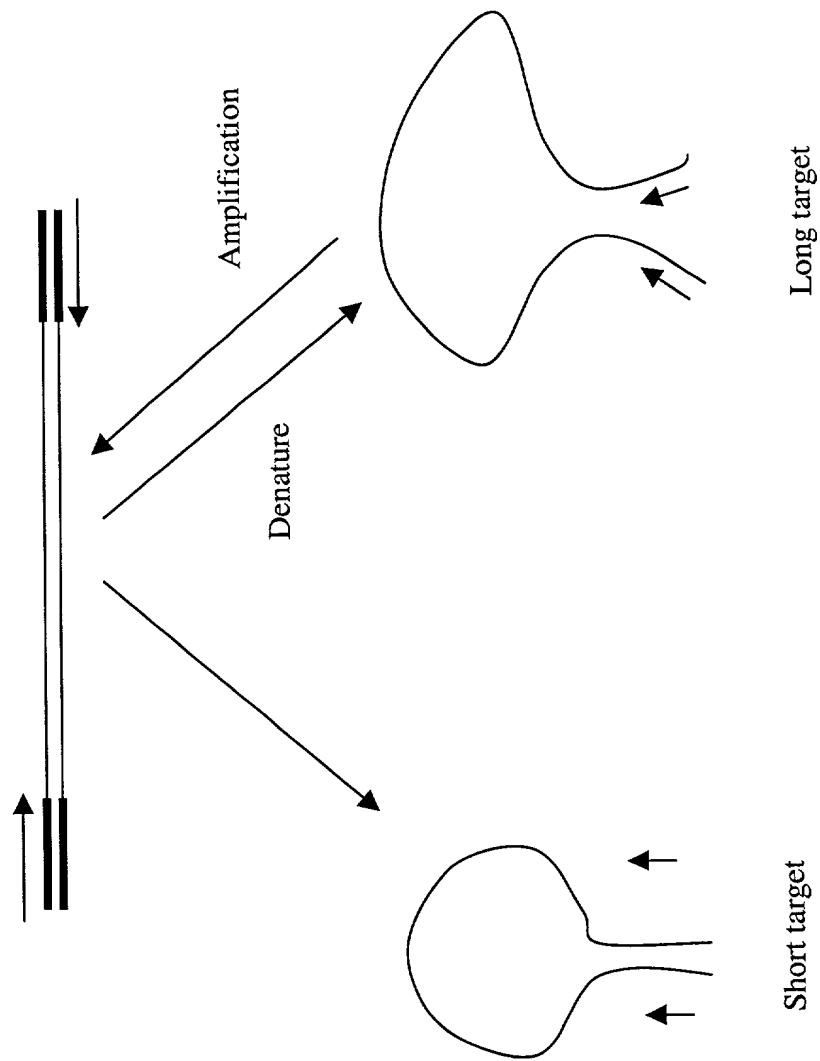


Figure 3

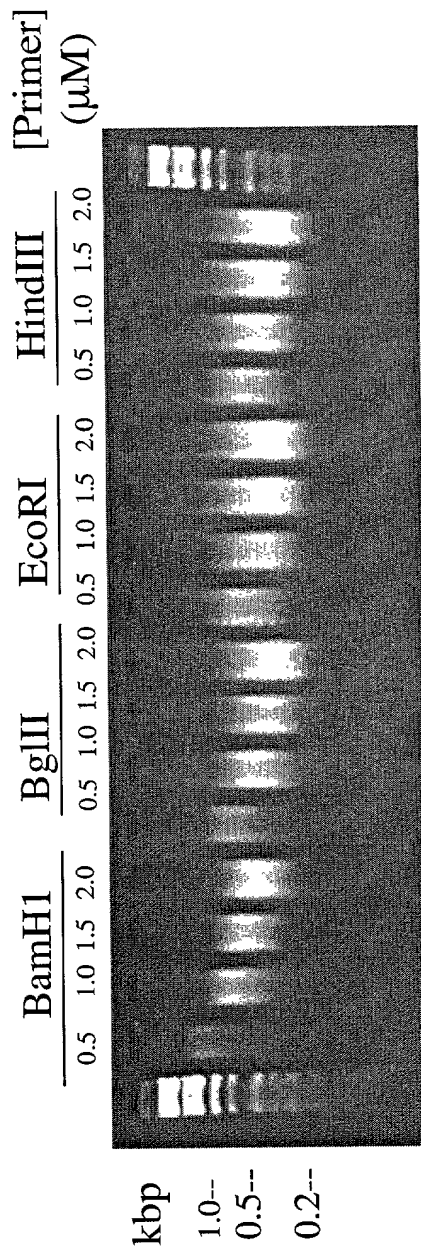


Figure 4

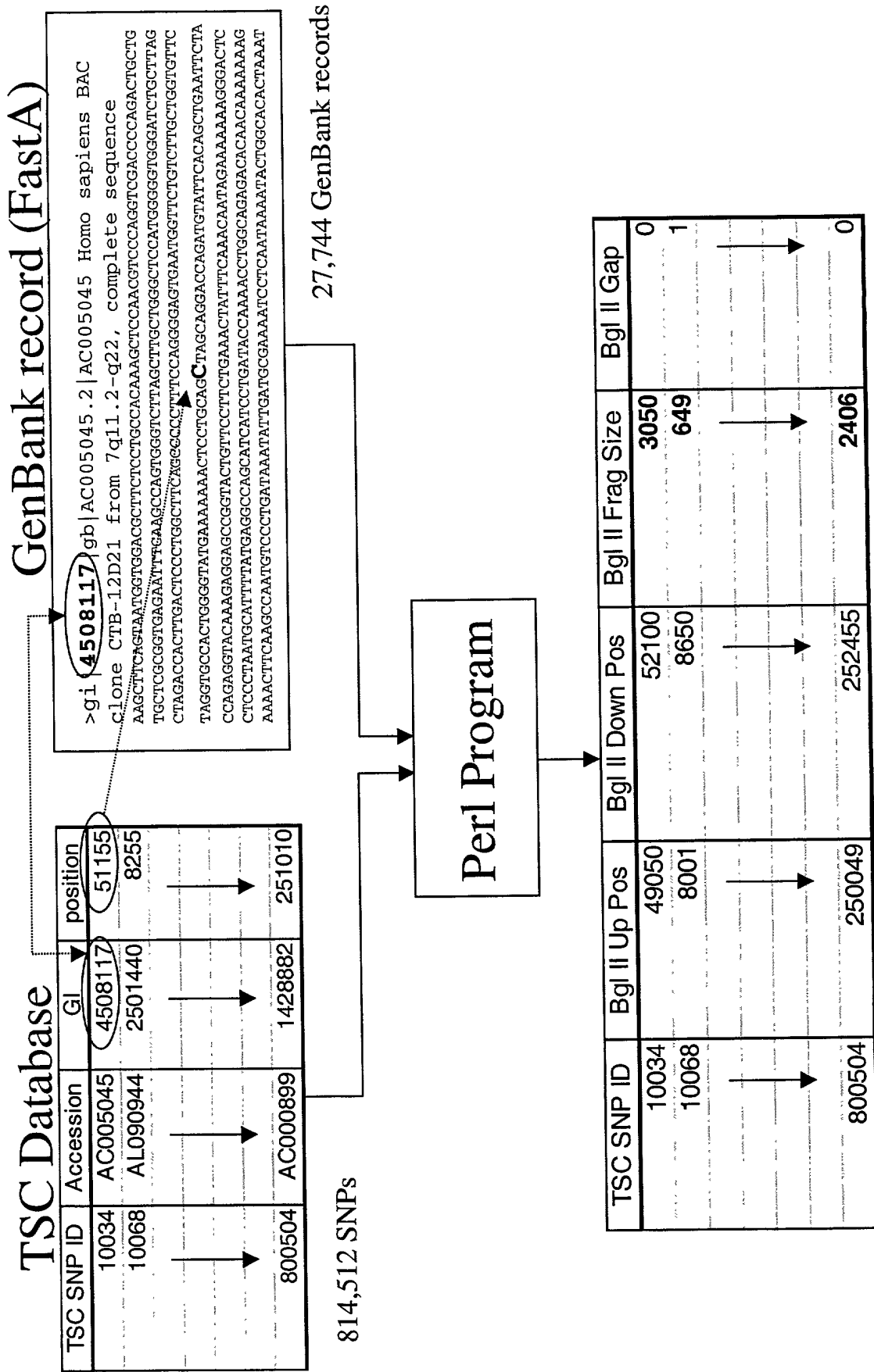


Figure 5

Rest Enzyme	400 to 800 bp	% 400 to 800	No Gaps
Eco RI	32908	5.2%	632078
Xba I	32349	5.1%	631415
Pst I	32266	4.9%	659081
Bgl II	29829	4.8%	627495
Hind III	19409	3.1%	635752
Nsi I	17718	2.7%	649122
PvuII	17150	2.6%	653501
Bsr GI	13923	2.2%	626285
Nco I	13290	2.2%	610472
Bcl I	11212	1.8%	616261
Sac I	9246	1.6%	579210
Apa I	8170	1.6%	524802
Apa LI	4978	0.9%	556948
BamHI	3136	0.6%	535953
Kpn I	1633	0.3%	505444
Xho I	417	0.1%	516532
Bsp EI	350	0.1%	547247
Sal I	58	0.0%	683138
Top 4	127352		

Figure 6

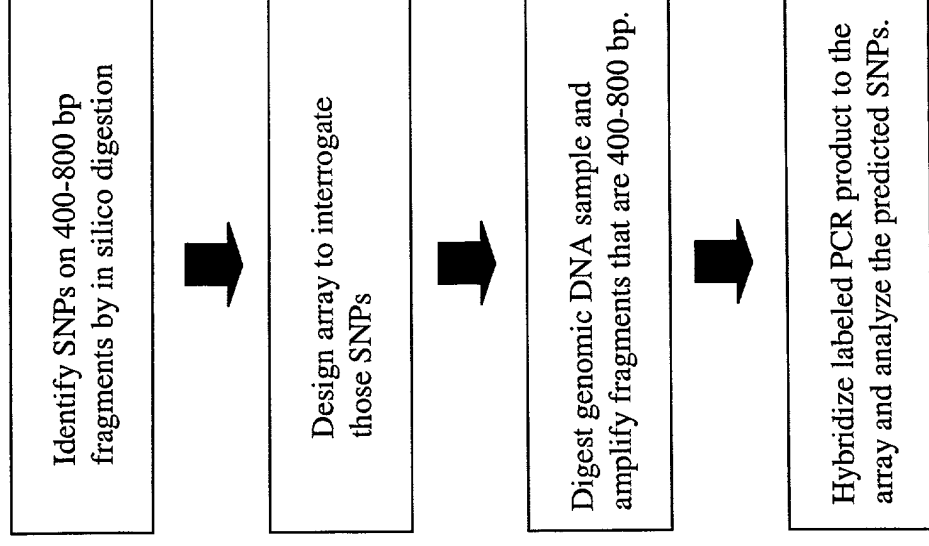


Figure 7

A.		BglII 400-700 Subset	EcoRI 400-700 subset	% Pos	False Pos	% False Pos
	NLF <= -6	3321	906	83.6%	1049.5	26.4%
	NLF <= -10	2644	270	66.6%	312.8	7.9%
	NLF <= -15	1845	55	46.5%	63.7	1.9%
	Total	3971	3428			
B.		EcoR 400-700 subset	EcoRI 400-700 subset	% Pos	False Pos	% False Pos
	NLF <= -6	2602	804	75.9%	694.1	20.2%
	NLF <= -10	2055	271	59.9%	233.9	6.8%
	NLF <= -15	1459	78	42.6%	67.3	1.7%
	Total	3428	3971			
C.		Xba 400-700 Subset	EcoRI 400-700 subset	% Pos	False Pos	% False Pos
	NLF <= -6	3307	906	77.7%	1124.3	26.4%
	NLF <= -10	2515	270	59.1%	335.1	7.9%
	NLF <= -15	1734	55	40.8%	68.3	2.0%
	Total	4254	3428			

Figure 8

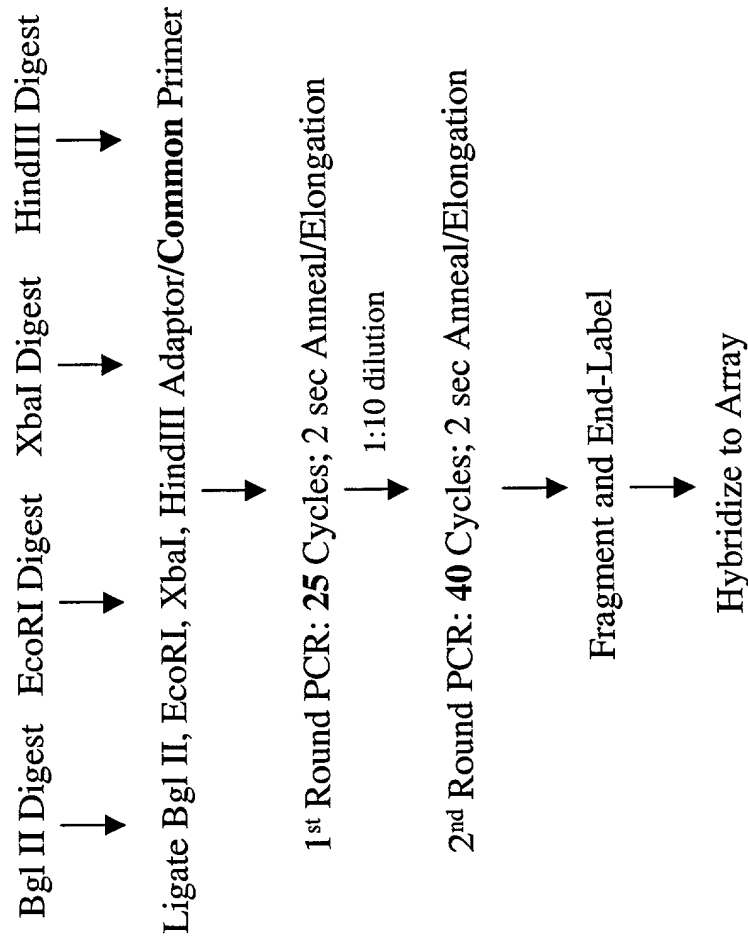


Figure 9

A.

	BglII 400-700 Subset	EcoRI 400-700 subset	% Pos	False Pos	% False Pos
NLF <= -6	2788	1023	70.2%	1185.0	29.8%
NLF <= -10	1845	359	46.5%	415.9	10.5%
NLF <= -15	984	78	24.8%	90.4	2.6%
Total	3971	3428			

B.

	EcoRI 400-700 Subset	XbaI 400-700 subset	% Pos	False Pos	% False Pos
NLF <= -6	2600	1517	75.8%	1309.6	38.2%
NLF <= -10	1814	631	52.9%	544.7	15.9%
NLF <= -15	1014	198	29.6%	170.9	4.3%
Total	3428	3971			

C.

	XbaI 400-700 Subset	EcoRI 400-700 subset	% Pos	False Pos	% False Pos
NLF <= -6	3551	1088	83.5%	1350.2	31.7%
NLF <= -10	2746	448	64.6%	555.9	13.1%
NLF <= -15	1726	132	40.6%	163.8	4.8%
Total	4254	3428			